BRUHATH BANGALORE MAHANAGARA PALIKE, DASARAHALLI ZONE

Office of the Executive Engineer Dasarahalli Division,

SHEDULE- B

Name of Work: Providing & Sinking of Borewells, pump, Motor & water supplying in Ward No 14, Bagalagunte

	Description of work		Unit	Qty	Rate to be Quoted	
					In Figures (Rs.)	In Words (Rs.)
1	2	3		4	5.00	6
1	Geophysical survey geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the hand pumps, MWS or PWSS by vertical electrical sounding by adopting venner or schlumbergers's method including recconnaisance suevey of geological formation Geophysical investigation of existing ground Water in the vicinity. its quality , quality & acceptabality of the users indicating the location of the site recommendeddepth of casing pipe required to seal the tope unconsolidated formation including an extra depth 1.0 metre in consolidated formation for aquire proposed to be tapped propable yield and other information required including transportation of instrument and accessories to work site, engating technical personal and labour etc.		Each	4.00	1882.00	Rupees One thousand Eight hundred and Eighty Two only
2	Sinking of Borewell of 165 mm clear using fast hydraulic rig of capacity 250 PSIG & above 900 CMF & abpve in al strata including over burden upto 22 m fixing of casing pipes, collars and cap with necessary cutting and threading including transporation of rig and surpporting vehicles, screws charges and cost of consumable including yield testing at the final depth with a minimum working of compressor for one hour all as specified.		Rmtr			
a	0.00 to 50.00 mtrs			200.00	306.00	Rupees Three hundred & Six Only
b	50mtr to 100.00 mtr			200.00	400.00	Rupees Four hundredOnly
c	100.00 to 150.00 mtr			200.00	445.00	Rupees Four hundred & Forty Five Only
d	150.00 to 200.00 mtr			200.00	470.00	Rupees Four hundred & Seventy Only
e	200.00 to 250.00 mtr			200.00	544.00	Rupees Five hundred & Forty four Only

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f	250.00 to 300.00 mtr		200.00	583.00	Rupees Five hundred & Eighty Three Only
g	300.00 to 350.00 mtr		200.00	622.00	Rupees Six hundred & Twenty Two Only
3	Supply of ISI Mark 175mm Nominal bore ,plain end steel Casing pipe grade of steel Fee 410 of wall thickness 5.4 mm thick confirming to IS 1387/1933 and manufactured by basic open hearth electric or basic oxygen process in random lenth of 5 to 7mtrs. Both ends threaded Confirming to IS 554/1985, One end fixed with a Socket Confirming to IS 4270:2001 and the other end with Screwed pipes . All pipes shall be reasonably free from defectes. The tube shall be reasonably straight should be with ISI marking, weighing 25.10kg/mtr. (Inclusive of all taxes)	Rmtr	200.00	1325.00	Rupees One thousand Three hundred & Twenty Five Only
4	Additional rate on item No. 2 is allowed for drilling in over burden and folling casing pipes beyond 20mtrs, rate at 15% and beyond 30mtrs 30% on basic rate of Rs.306 is allowed	Mtr	40.00	45.90	Rupees Forty Five Ninty Paise Only
5	Providing 175 mm dia MS Collar	Each	40.00	150.00	Rupees One hundred Fifty Only
6	Providing 175 mm dia MS Cap	Each	4.00	100.00	Rupees One hundred Only
7	Supply and delivery at site brand new Texmo / Innoval / Lubi / Sabar / Atalanta / Calamal / waterman / Radha make suitable vertical installation in 150mm dia. Borewells comprising of single stage or miultistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage **submersible induction mortor** suitable for operation of 3Ph., 50Hz. 380/44 volts AC supply fitted with required accessories such as suction. casing, suction strainers, sand guard Non return valve etc., complete the pump and motor shall form an integral unit with all the required fittings **15HP 30 stage Kirloskar, Atlanta, Suguna, CRI & other equipment pump**	Nos	4.00	70600.00	Rupees Seventy Thousand Six hundred Only
8	Supplying and Drawing 3 core Flat PVC Shalted Submersible Pump Cable Manufactured with Electrolytic Grade Copper with Flexible copper conductor to table 3 class 5 of IS 8130-1984 and Virgen PVC insulation and Sheeated Suitable for working Voltage Upto 1100 Volts BWSSB	Mtr	2790.00	188.70	Rupees One hundred Fifty Nine & Fifty Paise Only

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9	Supplying and fixing 50mm Non Return Vavle of vertical type of approved make including cost of all materials labour HOM of equipment with all leads Complete as per Specifcation	Nos	4.00	1145.00	Rupees One thousand One hundred Forty Five Only
10	Supplying and fixing 50mm GM Gate Vavle	Nos	4.00	1600.00	Rupees One thousand Six hundred Only
11	Supplying and fixing 175mm Borewell cap with clampset	Nos	4.00	500.00	Rupees Five hundred Only
12	Supplying and fixing 50mm GI Union	Nos	4.00	223.70	Rupees Two hundred Twenty Three & Seventy Paise Only
13	Supplying and fixing 50mm GI Elbow	Nos	12.00	111.80	Rupees One hundred Eleven & Eighty Paise Only
14	Supplying and delivery at site brand new star / Essen / Lotus / Sun shines / Adharsh / GK Controls best indigenous make combined energy meter cum control panel board unit of size 1200x600x350mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for opration on 3ph, 50 hz, 380/440 volts, AC supply with spring loaded latch, locking device with a key ribs should be provided inside the door canopy apron and louvers ventilators shall be provided the combined energy meter cum control panel board unit suitable for operation on 3ph, 50 hz, 380/440 volts AC supply shall be consists etc., complete the panel board shall be consist etc., complete the panel board shall be fabricated on single unit in the above componenets panel board for suitable pumpset with star delta staretr out door type 10hp to 15 hp PRED ISSUE RATE	Nos	4.00	10000.00	Rupees Ten thousand Only
15	Providing and fixing of 50mm G.I pipe 'C' class heavy duty for erection of submersible pumpset galvanised tube 50mm supply ad delivary of cause heavy duty as per IS/239/1990	Mtr	1100.00	519.30	Rupees Five hundred Nineteen & Thirty Paise Only
16	Supplying and fixing 50mm GI coller Heavy duty	Nos	184.00	150.00	Rupees One hundred Fifty Only
17	Erection of combined panel board and meter unit with necessary materials and labour including providing cement concrete foundation bed cont door type etc., complete	Nos	4.00	475.00	Rupees Four hundred Seventy Five Only
18	Supplying of TPST with rewireable porcelain channels in SM encloser 15/32 amps	Nos	4.00	1320.00	Rupees One Thousand Three hundred & Twenty Only

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19	Supplying and fixing 500x500x65mm polished wood board made up not less than 15mm thick plank in front plank one end provided for olding at other end fixing the same of the valve using through bolts and nuts, PRED ISSUE RATE	Nos	4.00	302.50	Rupees Three hundred Two & Fifty Paise Only
20	Supplying and fixing LED Type panel board indicating lamp with required colour suitable for 220 v AC 50Hz 12/24 V DC Group 'B'. P-529, I-35(b), BWSSB SR 2013-14.	Nos	12.00	385.00	Rupees Three hundred Eighty Five Only
21	Supplying and drawing each PVC insulated 650/100 V grade wire in the conduct (Open or Concealed system of wiring) 7/20 or 7/36 copper wire. P-380, I-20, ii(d),	Nos	40.00	27.50	Rupees Twenty Seven & Fifty Paise Only
22	Supplying, fixing and wiring heavy duty low voltage capacitors confirming to I 2834, 3 PHASE 400/440 Volts grade for power factor improvement of rotating machinery capacitor in KVAR - rating Nos 2 KVAR Capacity	Nos	4.00	385.00	Rupees Three hundred Eighty Five Only
23	Supplying and fixing miniature Circuit breakers on existing MCB distribution boards using necessary fixing materials and wiring complete as required	Nos	4.00	880.00	Rupees Eight hundred Eighty Only
24	Supplying, fixing, wiring earth electrode for grounding conduits, LC cutouts and other equipments on the meter board using 40mm dia 2.90mm thick GI pipe 2.50m long buried in a pit. The pit should be filled with equal proportion of solt and charcoal 150mm alround the pipe to complete depth. the connection from the pipe to the conduct etc., is to be established through GI wire of size as per ISI specifications 7.3.3 IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 throught holes of 122mm dia	Nos	4.00	1650.00	Rupees One thousand Six hundred Fifty Only
25	Supplying and fixing class A (medium duty) GI pipe wall thickness not less than 3.25mm on pole.	Nos	40.00	286.00	Rupees Two hundred Eighty Six Only

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26	Supplying and fixing wiring earth electrode for grounding conduits, IC cutouts and other equipments on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 Mtr long buried in a pit,/ the pit should be filled with equal proporation of salt and charocal 150mm alround the pipe to complete depth the connections from the pipe to the conduits etc., is to be established through GI wire of size as per ISI specification 7.3.3 of ISI 732 using 12 mmdia boalts, nuts washers and checknuts etc,. the pipe shall have 16 through holes of 122mm dia	Nos	4.00	1650.00	Rupees One thousand Six hundred fifty Only
27	Supply 1.1 KV class UG cable from nearest BESCOM pole to panel board including earth work and road restoratio 4 core 16 sqmm.	Mtr	120.00	165.00	Rupees One hundred Sixty Five Only
28	Labour charges for laying 1.1 KV class UG cable when supplied by agencies in existing trenches GI pipe / stoneware pipe/ on pole as required,	Mtr	120.00	5.50	Rupees Five & Fifty Paise Only
29	Digging of trench of 0.6m deep x 0.5m wide refilling the trench to the required level and consolidating etc., complete	Mtr	60.00	44.00	Rupees Forty Four Only
30	Supply and fixing LT cast iron pot heads suitable for 1.1 KV class 16 sqmm UG cable filled with neccesary bitumen / insulating compound complete with termiinalas, clamps, bolts, nuts,	Nos	4.00	264.00	Rupees Two hundred Sixty Four Only
31	Supplying and fixing of porcelain fuse channel with cut-out on existing / new wooden panel using neccesary nuts, bolts and washers etc.,	Nos	24.00	440.00	Rupees Four hundred Forty Only
32	Cutting of road surface for pipeline trenches and disposing of the excavated stuff as directed including barricading, danger lighting etc., in the Asphalt surface road.	Cum	158.40	311.64	Rupees Three hundred Eleven & Sixty Four paise Only
33	Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @180 kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications	Cum	40.03	5159.02	Rupes Five thousand one hundred fiftynine 7two paise only

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34	Providing and laying in position plain cement concrete of mix M1:2:4 with cement @240 kgs, with 2[illegible]m and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications	Cum	40.03	5767.46	Rupes Five thousand seven hundred sixtyseven & fourtysix paise only
35	Earthwork excavation for foundation of buildings water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification.	Cum	800.64	259.70	Rupees Two hundred ninty Nine & Ninety Eight Paise Only
36	Providing and installing at site of work P.V.C pipees including cost of pipes and specials and labour including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not leass than 15 cms with gravel or selected earth available from the excavation etc., complete PVC pipes of 6kg/Sqm 75mm Dia.	Rmtr	1760.00	130.38	Rupees One hundred & Fifty Seven only
37	Supplying and fixing 50 mm GI pipes 'B' class heavy duty (As PER bwssb Store Issued Rate) Note:- GI Pipe using for Road crossing places.	Mtr	40.00	325.00	Rupees Three hundred & Twenty Five only
38	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5m. Including cost of all labour complete as per specification.	Cum	667.80	80.56	Rupees Eighty & Fifty Six only
39	Transportation of pumping machineries	L/S	4.00	900.00	Rupees Nine hundred Only
40	Erection of Pumping machineries	L/S	48.00	900.00	Rupees Nine hundred Only
41	BESCOM Deposit charge and miscellanious.	L.S	4.00	14000.00	Rupees Forfteen Thousand Only

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